RAW SEQUENCE LISTING
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Application Serial Number: 10 l009,508
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Revised 04/24/2003

PCT

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RAW SEQUENCE LISTING               DATE: 09/25/2003
PATENT APPLICATION:  US/10/009,508 TIME: 17:32:53

Input Set : A:\20093-10seq.txt
Output Set: N:\CRF4\09252003\J009508.raw

 3 <110> APPLICANT: Northwest Biotherapeutics, Inc.
 5 <120> TITLE OF INVENTION: METHODS FOR THE DIAGNOSIS AND TREATMENT OF METASTATIC
 6         PROSTATE TUMORS
 8 <130> FILE REFERENCE: 8511-025-228
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C--> 10 `<140> CURRENT APPLICATION NUMBER: US/10/009,508`
C--> 11 `<141> CURRENT FILING DATE: 2003-05-19`
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13 <160> NUMBER OF SEQ ID NOS: 16
15 <170> SOFTWARE: PatentIn Ver. 2.0
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ERRORED SEQUENCES

Does Not Comply
Corrected Diskette Needed

P.4

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375 <210> SEQ ID NO: 2
376 <211> LENGTH: 1298
377 <212> TYPE: PRT
378 <213> ORGANISM: Homo sapiens
380 <400> SEQUENCE: 2
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384 Leu Leu Asp Gly Leu Val Ser Asp Tyr Ser Met Thr Pro Pro Thr Leu
385              20                  25                  30
387 Asn Ile Thr Glu Glu Ser His Val Ile Asp Thr Gly Asp Ser Leu Ser
388          35                  40                  45
390 Ile Ser Cys Arg Gly Gln His Pro Leu Glu Trp Ala Trp Pro Gly Ala
391          50                  55                  60
393 Gln Glu Ala Pro Ala Thr Gly Asp Lys Asp Ser Glu Asp Thr Gly Val
394  65                  70                  75                  80
396 Val Arg Asp Cys Glu Gly Thr Asp Ala Arg Pro Tyr Cys Lys Val Leu
397              85                  90                  95
399 Leu Leu His Glu Val His Ala Asn Asp Thr Gly Ser Tyr Val Cys Tyr
400          100                 105                 110
402 Tyr Lys Tyr Ile Lys Ala Arg Ile Glu Gly Thr Thr Ala Ala Ser Ser
403          115                 120                 125
405 Tyr Val Phe Val Arg Asp Phe Glu Gln Pro Phe Ile Asn Lys Pro Asp
406          130                 135                 140
408 Thr Leu Leu Val Asn Arg Lys Asp Ala Met Trp Val Pro Cys Leu Val
409 145                 150                 155                 160
411 Ser Ile Pro Gly Leu Asn Val Thr Leu Arg Ser Gln Ser Ser Val Leu
412              165                 170                 175
414 Trp Pro Asp Gly Gln Glu Val Val Trp Asp Asp Arg Arg Gly Met Leu
415              180                 185                 190
417 Val Ser Thr Pro Leu Leu His Asp Ala Leu Tyr Leu Gln Cys Glu Thr
418          195                 200                 205
```

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420 Thr Trp Gly Asp Gln Asp Phe Leu Ser Asn Pro Phe Leu Val His Ile
421     210             215             220
423 Thr Gly Asn Glu Leu Tyr Asp Ile Gln Leu Leu Pro Arg Lys Ser Leu
424 225             230             235                     240
426 Glu Leu Leu Val Gly Glu Lys Leu Val Leu Asn Cys Thr Val Trp Ala
427             245             250·                    255
429 Glu Phe Asn Ser Gly Val Thr Phe Asp Trp Asp Tyr Pro Gly Lys Gln
430             260             265             270
432 Ala Glu Arg Gly Lys Trp Val Pro Glu Arg Arg Ser Gln Gln Thr His
433         275             280             285
435 Thr Glu Leu Ser Ser Ile Leu Thr Ile His Asn Val Ser Gln His Asp
436     290             295             300
438 Leu Gly Ser Tyr Val Cys Lys Ala Asn Asn Gly Ile Gln Arg Phe Arg
439 305             310             315             320
441 Glu Ser Thr Glu Val Ile Val His Glu Asn Pro Phe Ile Ser Val Glu
442             325             330             335
444 Trp Leu Lys Gly Pro Ile Leu Glu Ala Thr Ala Gly Asp Glu Leu Val
445             340             345             350
447 Lys Leu Pro Val Lys Leu Ala Ala Tyr Pro Pro Pro Glu Phe Gln Trp
448         355             360             365
450 Tyr Lys Asp Gly Lys Ala Leu Ser Gly Arg His Ser Pro His Ala Leu
451     370             375             380
453 Val Leu Lys Glu Val Thr Glu Ala Ser Thr Gly Thr Tyr Thr Leu Ala
454 385             390             395             400
456 Leu Trp Asn Ser Ala Ala Gly Leu Arg Arg Asn Ile Ser Leu Glu Leu
457             405             410             415
459 Val Val Asn Val Pro Pro Gln Ile His Glu Lys Glu Ala Ser Ser Pro
460             420             425             430
462 Ser Ile Tyr Ser Arg His Ser Arg Gln Ala Leu Thr Cys Thr Ala Tyr
463         435             440             445
465 Gly Val Pro Leu Pro Leu Ser Ile Gln Trp His Trp Arg Pro Trp Thr
466     450             455             460
468 Pro Cys Lys Met Phe Ala Gln Arg Ser Leu Arg Arg Arg Gln Gln Gln
469 465             470             475             480
471 Asp Leu Met Pro Gln Cys Arg Asp Trp Arg Ala Val Thr Thr Gln Asp
472             485             490             495
474 Ala Val Asn Pro Ile Glu Ser Leu Asp Thr Trp Thr Glu Phe Val Glu
475             500             505             510
477 Gly Lys Asn Lys Thr Val Ser Lys Leu Val Ile Gln Asn Ala Asn Val
478         515             520             525
480 Ser Ala Met Tyr Lys Cys Val Val Ser Asn Lys Val Gly Gln Asp Glu
481     530             535             540
483 Arg Leu Ile Tyr Phe Tyr Val Thr Thr Ile Pro Asp Gly Phe Thr Ile
484 545             550             555             560
486 Glu Ser Lys Pro Ser Glu Glu Leu Leu Glu Gly Gln Pro Val Leu Leu
487             565             570             575
489 Ser Cys Gln Ala Asp Ser Tyr Lys Tyr Glu His Leu Arg Trp Tyr Arg
490             580             585             590
492 Leu Asn Leu Ser Thr Leu His Asp Ala His Gly Asn Pro Leu Leu Leu
```

```
493         595                   600                   605 ·
495 Asp Cys Lys Asn Val His Leu Phe Ala Thr Pro Leu Ala Ala Ser Leu
496     610                   615                   620
498 Glu Glu Val Ala Pro Gly Ala Arg His Ala Thr Leu Ser Leu Ser Ile
499 625                   630                   635                   640
501 Pro Arg Val Ala Pro Glu His Glu Gly His Tyr Val Cys Glu Val Gln
502                   645                   650                   655
504 Asp Arg Arg Ser His Asp Lys His Cys His Lys Lys Tyr Leu Ser Val
505     ·             660                   665                   670
507 Gln Ala Leu Glu Ala Pro Arg Leu Thr Gln Asn Leu Thr Asp Leu Leu
508             675                   680                   685
510 Val Asn Val Ser Asp Ser Leu Glu Met Gln Cys Leu Val Ala Gly Ala
511     690                   695                   700
513 His Ala Pro Ser Ile Val·Trp Tyr Lys Asp Glu Arg Leu Leu Glu Glu
514 705                   710                   715                   720
516 Lys Ser Gly Val Asp Leu Ala Asp Ser Asn Gln Lys Leu Ser Ile Gln
517                   725                   730                   735
519 Arg Val Arg Glu Glu Asp Ala Gly Pro Tyr Leu Cys Ser Val Cys Arg
520             740                   745                   750
522 Pro Lys Gly Cys Val Asn Ser Ser Ala Ser Val Ala Val Glu Gly Ser
523     755                   760                   765
525 Glu Asp Lys Gly Ser Met Glu Ile Val Ile Leu Val Gly Thr Gly Val
526     770                   775                   780
528 Ile Ala Val Phe Phe Trp Val Leu Leu Leu Leu Ile Phe Cys Asn Met
529 785 .                 790                   795       .           800
531 Arg Arg Pro Ala His Ala Asp Ile Lys Thr Gly Tyr Leu Ser Ile Ile
532             805                   810                   815
534 Met Asp Pro Gly Glu Val Pro Leu Glu Glu Gln Cys Glu Tyr Leu Ser
535             820                   825                   830
537 Tyr Asp Ala Ser Gln Trp Glu Phe Pro Arg Glu Arg Leu His Leu Gly
538             835                   840                   845
540 Arg Val Leu Gly Tyr Gly Ala Phe Gly Lys Val Val Glu Ala Ser Ala
541     850                   855                   860
543 Phe Gly Ile His Lys Gly Ser Ser Cys Asp Thr Val Ala Val Lys Met
544 865                   870                   875                   880
546 Leu Lys Glu Gly Ala Thr Ala Ser Glu Gln Arg Ala Leu Met Ser Glu
547             885                   890                   895
549 Leu Lys Ile Leu Ile His Ile Gly Asn His Leu Asn Val Val Asn Leu
550             900                   905                   910
552 Leu Gly Ala Cys Thr Lys Pro Gln Gly Pro Leu Met Val Ile Val Glu
553     915                   920                   925
555 Phe Cys Lys Tyr Gly Asn Leu Ser Asn Phe Leu Arg Ala Lys Arg Asp
556     930                   935                   940
558 Ala Phe Ser Pro Cys Ala Glu Lys Ser Pro Glu Gln Arg Gly Arg Phe
559 945                   950                   955                   960
561 Arg Ala Met Val Glu Leu Ala Arg Leu Asp Arg Arg Arg Pro Gly Ser
562             965                   970                   975
564 Ser Asp Arg Val Leu Phe Ala Arg Phe Ser Lys Thr Glu Gly Gly Ala
565             980                   985                   990
```

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      567 Arg Arg Ala Ser Pro Asp Gln Glu Ala Glu Asp Leu Trp Leu Ser Pro
      568         995             1000            1005
      570 Leu Thr Met Glu Asp Leu Val Cys Tyr Ser Phe Gln Val Ala Arg Gly
      571     1010            1015            1020
      573 Met Glu Phe Leu Ala Ser Arg Lys Cys Ile His Arg Asp Leu Ala Ala
E--> 574 (025) 1025       1030            1035            1040
      576 Arg Asn Ile Leu Leu Ser Glu Ser Asp Val Val Lys Ile Cys Asp Phe
      577             1045            1050            1055
      579 Gly Leu Ala Arg Asp Ile Tyr Lys Asp Pro Asp Tyr Val Arg Lys Gly
      580         1060          . 1065            1070
      582 Ser Ala Arg Leu Pro Leu Lys Trp Met Ala Pro Glu Ser Ile Phe Asp
      583     1075            1080            1085
      585 Lys Val Tyr Thr Thr Gln Ser Asp Val Trp Ser Phe Gly Val Leu Leu
      586     1090            1095            1100
      588 Trp Glu Ile Phe Ser Leu Gly Ala Ser Pro Tyr Pro Gly Val Gln Ile
E--> 589 (105)           1110            1115            1120
      591 Asn Glu Glu Phe Cys Gln Arg Val Arg Asp Gly Thr Arg Met Arg Ala
      592             1125            1130            1135
      594 Pro Glu Leu Ala Thr Pro Ala Ile Arg His Ile Met Leu Asn Cys Trp
      595         1140            1145            1150
      597 Ser Gly Asp Pro Lys Ala Arg Pro Ala Phe Ser Asp Leu Val Glu Ile
      598     1155            1160            1165
      600 Leu Gly Asp Leu Leu Gln Gly Arg Gly Leu Gln Glu Glu Glu Glu Val
      601     1170            1175            1180
      603 Cys Met Ala Pro Arg Ser Ser Gln Ser Ser Glu Glu Gly Ser Phe Ser
E--> 604 (185)           1190            1195            1200
      606 Gln Val Ser Thr Met Ala Leu His Ile Ala Gln Ala Asp Ala Glu Asp
      607             1205            1210            1215
      609 Ser Pro Pro Ser Leu Gln Arg His Ser Leu Ala Ala Arg Tyr Tyr Asn
      610         1220            1225            1230
      612 Trp Val Ser Phe Pro Gly Cys Leu Ala Arg Gly Ala Glu Thr Arg Gly
      613     1235            1240            1245
      615 Ser Ser Arg Met Lys Thr Phe Glu Glu Phe Pro Met Thr Pro Thr Thr
      616     1250            1255            1260
      618 Tyr Lys Gly Ser Val Asp Asn Gln Thr Asp Ser Gly Met Val Leu Ala
E--> 619 (265)           1270            1275            1280
      621 Ser Glu Glu Phe Glu Gln Ile Glu Ser Arg His Arg Gln Glu Ser Gly
      622             1285            1290            1295
      624 Phe Arg
```

⤷①When numbering the first amino-acid, begin
the number directly under the first letter of the
amino-acid. Please leave a space between
last number and next amino-acid.

example: Met Glu Phe Leu Ala Ser
          1025   1030

VERIFICATION SUMMARY   DATE: 09/25/2003
PATENT APPLICATION: **US/10/009,508**   TIME: 17:32:55

   Input Set : **A:\20093-10seq.txt**
   Output Set: **N:\CRF4\09252003\J009508.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:574 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
M:332 Repeated in SeqNo=2